Index

Volume 7 (1990)

Articles

February (pp 1-92)

Basin evolution in oceanic plateaux: seismic reflection evidence from the Kerguelan Plateau, South Indian Ocean Y. Rotstein, M. Schaming, R. Schlich and J. B. Colwell 2-12

The central Labrador Sea: facies and dispersal patterns of clastic sediments in a small ocean basin R. Hesse, A. Rakofsky and S. K. Chough 13-28

The carboniferous of the Outer Moray Firth Basin, quadrants 14 and 15, Central North Sea M. R. Leeder, S. R. Boldy, R. Raiswell and R. Cameron 29-37

Order and repetitive nature of the Zubair deltaic facies, central and southern Iraq and northern Kuwait M. H. Khaiwka 38-43

Relations between mud volcanoes, thrust deformation, slope sedimentation, and gas hydrate, offshore north Panama D. L. Reed, E. A. Silver, J. E. Tagudin, T. H. Shipley and P. Vrolijk 44-54

Prediction of pore fluid pressures in sedimentary basins D. M. Mann and

A. S. Mackenzie 55-65 The influence of variations in illite morphology on the permeability of Middle Jurassic Brent Group sandstones, Cormorant Field, **UK North Sea**

J. D. Kantorowicz 66-74 The Cenomanian/Turonian anoxic event in Europe: an organic geochemical study P. Farrimond, G. Eglinton, S. C. Brassell and H. C. Jenkyns 75-89

May (pp 93-204)

Basin-forming processes and the deep structure of the Campos Basin, offshore Brazil W. U. Mohriak, R. Hobbs and

J. F. Dewey 94-122 Dynamic hydrocarbon predictions for the northern part of the Danish Central Graben: an integrated basin analysis assessment

R. O. Thompson. I. Lerche and J. A. Korstgård 123-137

Relationship between thermal maturation gradients, geothermal gradients and estimates of the thickness of the eroded foreland section, southern Alberta Plains, Canada J. A. Majorowicz, F. W. Jones,

M. E. Ertman, K. G. Osadetz and L. D. Stasiuk 138-152

Relationship between petroleum generation, migration and sandstone diagenesis, Middle Jurassic, Gifhorn Trough, N Germany
T. A. Schwarzkopf 153-170

Syndepositional tectonics affecting Cenozoic and Mesozoic deposition in the Malta and SE Sicily areas (Central Mediterranean) and their bearing on Mesozoic reservoir development in the N Malta offshore region H. M. Pedley 171-180

Use of topographic lineaments to extend known structure and facies patterns in the Mesozoic of Southern England M. C. W. Baker 181-187

Research note

Extension of structural and tectonic trends from the Indian subcontinent into the Eastern Arabian Sea V. Kolla and F. Coumes 188-196

August (pp 205-316)

Extensional fault systems in sedimentary basins: a review of analogue model

K. R. McClay 206-233
Seismic facies of the Permian section of the Barents Shelf: analysis and interpretation

J. Gérard and C. Buhrig 234-252 Variations in the styles of erosion along the Florida Escarpment, eastern Gulf of Mexico D. C. Twichell, L. M. Parson and

C. K. Paull 253-266 Suspected gas-associated clay diapirism

on the seabed off Mid Norway M. Hovland 267-276 Isopach and borehole data as indicators

of rifted margin evolution in southwestern Africa C J. Rust and M. A. Summerfield 277-287

Ostracod colour change by thermal alteration, offshore Ireland and Western UK N. R. Ainsworth, R. D. Burnett and

M. Kontrovitz 288-297 Geochemistry and occurrence of authigenic phosphate nodules from the Desmoinesian cyclic Excello epeiric sea of the Midcontinent, USA O. I. Ece 298-312

November (pp 317-448)

Allochthonous salt, structure and stratigraphy of the north-eastern Gulf of Mexico. Part I: Stratigraphy S. Wu, P. R. Vail and C. Cramez 318-333 Allochthonous salt, structure and stratigraphy of the north-eastern Gulf of Mexico. Part II: Structure S. Wu, A. W. Bally and C. Cramez 334-370 Computerized balanced cross-section

LOCACE to reconstruct an allochthonous salt sheet, offshore I. Moretti and S. Wu and

A. W. Bally 371-377

Origin and significance of redistributional ondary porosity M. R. Giles and R. B. de Boer 378-397 Bowers Swell: Evidence for a zone of compressive deformation concentric with Bowers Ridge, Bering Sea

M. S. Marlow, A.K. Cooper, S. V. Dadisman, E. L. Geist and P. R. Carlson 398-409

Transverse intra-arc rifting: Palaeogene Wagwater Belt, Jamaica P. Mann and K. Burke 410-427

Organic geochemistry and source potential of the lacustrine shales of the Upper Triassic-Lower Jurassic Kap Stewart Formation, East Greenland G. Dam and F. G. Christiansen 428-443

Book reviews

Advances in Petroleum Geochemistry Vol. 2 Cornford, C. 199

Applied Sedimentology Sellwood, B. 197

Basement Correlation Across the North Atlantic

Lefort, J.-P. 314 Carbonate Diagenesis and Porosity Burchette, T. 201

Early Tertiary Volcanism and the Opening of the NE Atlantic Morton, A. C. and Parson,

L. M. (Eds) 90 Fluid Flow in Sedimentary Basins and Aquifers Goff, J. C. and Williams,

B. P. J. (Eds) 90 Lacustrine Petroleum Source Rocks Fleet, A. J., Kelts, K. and Talbot, M. R. (Eds) 199

Productivity of the Ocean: Present and Past

Brasier, M. 200 Sedimentary and Petroleum Geology Stoneley, R. 198

The Late Cretaceous San Juan Thrust System Oldow, J. S. 91

The Middle East: Regional Geology and Petroleum Resources Goff, J. 315

Thermal History of Sedimentary Basins: Methods and Case History Price, I. 314

Keyword index

Allochthonous salt Gulf of Mexico, stratigraphy 318, 334 offshore Louisiana, computerized balanced cross-section 371 Analogue models extensional fault systems, sedimentary basins 206

Barents Sea Permian, seismic facies 234 Basin analysis hydrocarbon potential, Danish Central Graben 123 **Basin evolution** volcanic plateaux, South Indian

Index

Basin formation lithospheric stretching, Campos Basin, Brazil 94

Bathymetric features swell formation, Bowers Swell 398

Biological marker compounds black shales, Cenomanian/ Turonian 75

Black shales Cenomanian/Turonian, biological marker compounds 75

Bowers Swell swell formation, bathymetric features 398

Buried structures topographic lineaments, Southern England 181

Campos Basin, Brazil basin formation, lithospheric stretching 94 Carboniferous

Outer Moray Firth Basin, lithostratigraphy 29

Cements redistribution secondary porosity, pore fluids 378

Cenomanian/Turonian black shales, biological marker compounds 75

Clay buoyancy clay diapirism, differential gas charging 267

Clay diapirism differential gas charging, clay buoyancy 267

Coalification erosion, palaeogeothermal gradients 138

Colour changes ostracod, thermal alteration 288 Computerized balanced cross-section offshore Louisiana, allochthonous salt 371

Danish Central Graben
basin analysis, hydrocarbon
potential 123
Deltaic cycles
Markov property, Zubair
Formation 38
Differential gas charging
clay diapirism, clay buoyancy 267
Drying effects

illite, permeability 66

East Greenland
lacustrine source rocks, geochemistry
of shales 428
Eastern Arabian Sea
structural trends, Laxmi-ChagosLaccadrive Ridge Complex 188

Erosion
coalification, palaeogeothermal
gradients 138
Florida Escarpment, Gulf of
Mexico 253
Extensional fault systems

analogue models, sedimentary basins 206

Florida Escarpment erosion, Gulf of Mexico 253 Fluid pressures pressure cells, hydrocarbon formation 55

Geochemistry of shales East Greenland, lacustrine source rocks 428 Gulf of Mexico erosion, Florida Escarpment 253 stratigraphy, allochthonous salt 318, 334

Hydrocarbon formation fluid pressures, pressure cells 55 Hydrocarbon potential basin analysis, Danish Central Graben 123

Illite
permeability, drying effects 66
Isopach and borehole data
rifted margin evolution, rifted margin
drainage model 277

Jamaica island arc transverse intra-arc rifting, Wagwater Belt 410

Labrador Sea sediment dispersal, small ocean basins 13 Lacustrine source rocks East Greenland, geochemistry of shales 428 Laxmi-Chagos-Laccadrive Hidge Complex structural trends, Eastern Arabian Sea 188

Lithospheric stretching basin formation, Campos Basin, Brazil 94 Lithostratigraphy Outer Moray Firth Basin, Carboniferous 29

Marine phosphorites nodule morphology, organic productivity 298 Markov property deltaic cycles, Zubair Formation 38 Mesozoic reservoir offshore Malta, syndepositional tectonics 171

Migration
petroleum generation, sandstone
diagenesis 153
Mud volcanoes
submarine thrust belts, offshore
Panama 44

Nodule morphology organic productivity, marine phosphorites 298

Offshore Louisiana

computerized balanced cross-section, allochthonous salt 371
Offshore Malta
Mesozoic reservoir, syndepositional tectonics 171
Offshore Panama mud volcanoes, submarine thrust belts 44
Organic productivity nodule morphology, marine phosphorites 298
Ostracod

Ostracod thermal alteration, colour changes 288 Outer Moray Firth Basin lithostratigraphy, Carboniferous 29

Palaeogeothermal gradients erosion, coalification 138 Permeability illite, drying effects 66 Permian
Barents Sea, seismic facies 234
Petroleum generation
sandstone diagenesis, migration 153
Pore fluids
redistribution secondary porosity,
cements 378
Pressure cells
fluid pressures, hydrocarbon
formation 55

Redistribution secondary porosity pore fluids, cements 378 Rifted margin drainage model rifted margin evolution, isopach and borehole data 277 Rifted margin evolution isopach and borehole data, rifted margin drainage model 277

Sandstone diagenesis
petroleum generation, migration 153
Sediment dispersal
small ocean basins, Labrador Sea 13
Sedimentary basins
analogue models, extensional fault
systems 206
Seismic facies
Barents Sea, Permian 234
Small ocean basins

Small ocean basins sediment dispersal, Labrador Sea 13 South Indian Ocean basin evolution, volcanic plateaux 2 Southern England topographic lineaments, buried structures 181 Stratigraphy

Stratigraphy
Gulf of Mexico, allochthonous
salt 318, 334
Structural trends

Easterm Arabian Sea, Laxmi-Chagos-Laccadrive Ridge Complex 188 Submarine thrust belts mud volcanoes, offshore Panama 44

Swell formation bathymetric features, Bowers Swell 398 Syndepositional tectonics offshore Malta, Mesozoic

reservoir 171

Volcanic plateaux

island arc 410

Thermal alteration ostracod, colour changes 288 Topographic lineaments buried structures, Southern England 181

Transverse intra-arc rifting Wagwater Belt, Jamaica island arc 410

basin evolution, South Indian Ocean 2
Wagwater Belt
transverse intra-arc rifting, Jamaica

Zubair Formation deltaic cycles, Markov property 38

Author index

Ainsworth, N. R.	288
Baker, M. C. W.	181
Bally, A. W.	334, 371
Boldy, S. R.	29
Brassell, S. C.	75

					Index
Buhrig, C.	234	Hesse, R.	13	Parson, L. M.	253
Burke, K.	410	Hobbs, R.	94	Paull, C. K.	253
Burnett, R. D.	288	Hovland, M.	267	Pedley, H. M.	171
Cameron, R.	29	Jenkyns, H. C.	75	Raiswell, R.	29
Carlson, P. R.	398	Jones, F. W.	138	Rakofsky, A.	13
Chough, S. K.	13			Reed, D. L.	44
Christiansen, F. G.	428	Kantorowicz, J. D.	66	Rotstein, Y.	2
Colwell, J. B.	2	Khaiwka, M. H.	38, 201	Rust, D. J.	277
Cooper, A. K.	398	Kolla, V.	188, 313		
Coumes, F.	188, 313	Kontrovitz, M.	288	Schaming, M.	2
Cramez, C.	318, 334	Korstgård, J. A.	123	Schlich, R.	2
		Korsigara, J. A.	120	Schwarzkopf, T. A.	153
Dadisman, S. V.	398			Shipley, T. H.	44
Dam, G.	428	Leeder, M. R.	29	Silver, E. A.	44
de Boer, R. B.	378	Lerche, I.	123	Stasiuk, L. D.	138
Dewey, J. F.	94			Summerfield, M. A.	277
		Mackenzie, A. S.	55	Summerneid, M. A.	
Ece, O. I.	298	Majorowicz, J. A.	138		
Eglinton, G.	75	Mann, D. M.	55	Tagudin, J. E.	44
Ertman, M. E.	138	Mann, P.	410	Thomsen, R. O.	123
		Marlow, M. S.	398	Twichell, D. C.	253
Farrimond, P.	75	McClay, K. R.	206		
		Mohriak, W. U.	94	Vail, P. R.	318
Geist, E. L.	398	Moretti, I.	371	Vrolijk, P.	44
Gérard, J.	234	•			
Giles, M. R.	378	Osadetz, K. G.	138	Wu, S.	318, 334, 371